

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A vaccine or immunogenic composition comprising at least an isolated PspA and an isolated immunogenic fragment of PspA from *S. pneumoniae* strains from at least two PspA families, wherein the isolated PspA is from one PspA family and the isolated immunogenic fragment of PspA is from another PspA family and the at least two families comprise one or more clades selected from the group consisting of clade 1, clade 2, clade 3, clade 4, clade 5, and clade 6.
2. (previously presented) The vaccine or immunogenic composition of claim 1, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from clade 1.
3. (previously presented) The vaccine or immunogenic composition of claim 2, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA having an amino acid sequence of SEQ ID NO: 1.
4. (previously presented) The vaccine or immunogenic composition of claim 2, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain BG6692 having an amino acid sequence of SEQ ID NO: 2.
5. (previously presented) The vaccine or immunogenic composition of claim 2, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain BG8838 having an amino acid sequence of SEQ ID NO: 3.
6. (previously presented) The vaccine or immunogenic composition of claim 2, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain BG9739 having an amino acid sequence of SEQ ID NO: 4.

7. (previously presented) The vaccine or immunogenic composition of claim 2, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain DBL6A having an amino acid sequence of SEQ ID NO: 5.

8. (previously presented) The vaccine or immunogenic composition of claim 2, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain L81905 having an amino acid sequence of SEQ ID NO: 6.

9. (previously presented) The vaccine or immunogenic composition of claim 2, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain BG8743 having an amino acid sequence of SEQ ID NO: 7.

10. (previously presented) The vaccine or immunogenic composition of claim 2, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain DBL1 having an amino acid sequence of SEQ ID NO: 8.

11. (previously presented) The vaccine or immunogenic composition of claim 2, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain AC94 having an amino acid sequence of SEQ ID NO: 9.

12. (previously presented) The vaccine or immunogenic composition of claim 1, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from clade 2.

13. (previously presented) The vaccine or immunogenic composition of claim 12, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA having an amino acid sequence of SEQ ID NO: 10.

14. (previously presented) The vaccine or immunogenic composition of claim 12, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain EF10197 having an amino acid sequence of SEQ ID NO: 11.

15. (previously presented) The vaccine or immunogenic composition of claim 12, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain WU2 having an amino acid sequence of SEQ ID NO: 13.

16. (previously presented) The vaccine or immunogenic composition of claim 12, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain DBL5 having an amino acid sequence of SEQ ID NO: 14.

17. (previously presented) The vaccine or immunogenic composition of claim 12, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain EF6796 having an amino acid sequence of SEQ ID NO: 15.

18. (previously presented) The vaccine or immunogenic composition of claim 12, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain 0922134 having an amino acid sequence of SEQ ID NO: 16.

19. (previously presented) The vaccine or immunogenic composition of claim 12, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain BG9163 having an amino acid sequence of SEQ ID NO: 17.

20. (previously presented) The vaccine or immunogenic composition of claim 1, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from clade 3.

21. (previously presented) The vaccine or immunogenic composition of claim 20, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA having an amino acid sequence of SEQ ID NO: 18.

22. (previously presented) The vaccine or immunogenic composition of claim 20, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain AC122 having an amino acid sequence of SEQ ID NO: 19.

23. (previously presented) The vaccine or immunogenic composition of claim 20, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain EF3296 having an amino acid sequence of SEQ ID NO: 20.

24. (previously presented) The vaccine or immunogenic composition of claim 20, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain BG8090 having an amino acid sequence of SEQ ID NO: 21.

25. (previously presented) The vaccine or immunogenic composition of claim 1, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from clade 4.

26. (previously presented) The vaccine or immunogenic composition of claim 25, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA having an amino acid sequence of SEQ ID NO: 22.

27. (previously presented) The vaccine or immunogenic composition of claim 25, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain BG11703 having an amino acid sequence of SEQ ID NO: 23.

28. (previously presented) The vaccine or immunogenic composition of claim 25, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain BG7817 having an amino acid sequence of SEQ ID NO: 24.

29. (previously presented) The vaccine or immunogenic composition of claim 25, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain EF5668 having an amino acid sequence of SEQ ID NO: 25.

30. (previously presented) The vaccine or immunogenic composition of claim 25, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain BG7561 having an amino acid sequence of SEQ ID NO: 26.

31. (previously presented) The vaccine or immunogenic composition of claim 1, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from clade 5.

32. (previously presented) The vaccine or immunogenic composition of claim 31, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain ATCC6303 having an amino acid sequence of SEQ ID NO: 27.

33. (previously presented) The vaccine or immunogenic composition of claim 1, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from clade 6.

34. (previously presented) The vaccine or immunogenic composition of claim 33, wherein the composition comprises an isolated PspA or an isolated immunogenic fragment of PspA from strain BG6380 having an amino acid sequence of SEQ ID NO: 28.